



SHEET 1 OF 2

FORM PTO - 1449

INFORMATION DISCLOSURE STATEMENT

ATTORNEY DOCKET NO.: RVI-003

APPLICANT(S): Rowan et al.

SERIAL NO.: 10/780,004

FILING DATE: February 17, 2004

CONFIRMATION NO.: 9566

GROUP: 2171

U.S. PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
y/k	A1	4,814,971	3/21/89	Thatte	364	200	9/11/85
	A2	5,201,044	4/6/93	Frey, Jr. et al.	395	575	4/16/90
	A3	5,235,601	8/10/93	Stallmo et al.	371	40.1	12/21/90
	A4	5,280,611	1/18/94	Mohan et al.	395	600	11/8/91
	A5	5,287,501	2/15/94	Lomet	395	600	7/11/91
	A6	5,325,519	6/28/94	Long et al.	395	575	10/18/91
	A7	5,381,545	1/10/95	Baker et al.	395	575	5/28/92
	A8	5,479,654	12/26/95	Squibb	395	600	3/30/93
	A9	5,729,743	3/17/98	Squibb	395	619	11/30/95
	A10	5,745,906	4/28/98	Squibb	707	203	11/14/95
	A11	5,751,939	5/12/98	Stiffler	395	182.13	11/29/95
	A12	5,764,877	6/9/98	Lomet et al.	395	182.04	9/1/95
	A13	5,787,243	7/28/98	Stiffler	395	182.11	7/2/96
	A14	5,790,773	8/4/98	DeKoning et al.	395	182.04	12/29/95
	A15	5,813,017	9/22/98	Morris	707	204	9/3/96
	A16	5,864,657	1/26/99	Stiffler	395	182.13	11/29/95
	A17	5,893,119	4/6/99	Squibb	707	203	7/22/97
	A18	5,948,110	9/7/99	Hitz et al.	714	6	6/5/95
	A19	6,016,553	1/18/00	Schneider et al.	714	21	6/26/98
	A20	6,061,769	5/9/00	Kapulka et al.	711	162	9/27/95
	A21	6,065,018	5/16/00	Beier et al.	707	202	3/4/98
	A22	6,081,875	6/27/00	Clifton et al.	711	162	5/19/97

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U.S. PATENT DOCUMENTS								
EXAM. INIT.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE		
Y/C	A23	6,148,416	11/14/00	Masubuchi	714	15	5/9/97	
1	A24	6,158,019	12/5/00	Squibb	714	13	11/14/97	
	A25	6,199,178 B1	3/6/01	Schneider et al.	714	21	7/15/99	
	A26	6,240,527 B1	5/29/01	Schneider et al.	714	21	11/29/99	
	A27	6,289,357 B1	9/11/01	Parker	707	202	4/24/98	
	A28	6,301,677 B1	10/9/01	Squibb	714	13	9/6/00	
	A29	6,324,548 B1	11/27/01	Sorenson	707	204	7/22/99	
	A30	6,345,346 B1	2/5/02	Biessener et al.	711	162	2/26/99	
	A31	6,539,402 B1	3/25/03	Sorenson et al.	707	202	2/22/00	
	A32	2002/0023199 A1	2/21/02	Biessener et al.	711	162	10/12/01	
	A33	2002/0049883 A1	4/25/02	Schneider et al.	711	100	4/25/01	
	A34	2002/0049950 A1	4/25/02	Loaiza et al.	714	763	1/18/01	
	A35	2002/0156971 A1	10/24/02	Jones et al.	711	114	4/19/01	
	A36	2003/0093444 A1	5/15/03	Huxoll	707	204	11/15/01	
↓	A37	2003/0115432 A1	6/19/03	Biessener et al.	711	162	12/14/01	
FOREIGN PATENT DOCUMENTS								
EXAM. INIT.	DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG (Y/N)
OTHER ART, JOURNAL ARTICLES, ETC.								
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)							

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U.S. PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
✓	A38	3,444,528	5/13/69	Lovell et al.			
	A39	3,533,082	10/6/70	Schnabel et al.			
	A40	3,715,729	2/6/73	Mercy			
	A41	4,141,066	2/20/79	Keiles			
	A42	4,156,907	5/29/79	Rawlings et al.			
	A43	4,164,017	8/7/79	Randell et al.			
	A44	4,191,996	3/4/80	Chesley			
	A45	4,351,023	9/21/82	Richer			
	A46	4,378,588	3/29/83	Katzmann et al.			
	A47	4,403,303	9/6/83	Howes et al.			
	A48	4,453,215	6/5/84	Reid			
	A49	4,459,658	7/10/84	Gabbe et al.			
	A50	4,479,214	10/23/84	Ryan			
	A51	4,483,001	11/13/84	Ryan			
	A52	4,484,275	11/20/84	Katzman et al.			
	A53	4,486,826	12/4/84	Wolff et al.			
	A54	4,498,145	2/5/85	Baker et al.			
	A55	4,507,751	3/26/85	Gawlick et al.			
	A56	4,521,847	6/4/85	Ziehm et al.			
	A57	4,581,701	4/8/86	Hess et al.			
	A58	4,607,365	8/19/86	Greig et al.			
	A59	4,608,688	8/26/86	Hansen et al.			
✓	A60	4,639,856	1/27/87	Hrustich et al.			

EXAMINER <i>Yand / li</i>	DATE CONSIDERED <i>7/12/2008</i>
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U.S. PATENT DOCUMENTS							
EXAM. INIT.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE	
✓	A61	4,648,031	3/3/87	Jenner			
	A62	4,652,940	3/24/87	Sumiyoshi			
	A63	4,654,819	3/31/87	Stiffler et al.			
	A64	4,654,857	3/31/87	Samson et al.			
	A65	4,674,038	6/16/87	Brelsford et al.			
	A66	4,703,421	10/27/87	Abrant et al.			
	A67	4,703,481	10/27/87	Fremont			
	A68	4,713,811	12/15/87	Frey			
	A69	4,727,516	2/23/88	Yoshida et al.			
	A70	4,736,339	4/5/88	Crabbe, Jr.			
	A71	4,750,177	6/7/88	Hendrie et al.			
	A72	4,754,397	6/28/88	Varaiya et al.			
	A73	4,819,154	4/4/89	Stiffler et al.			
	A74	4,878,167	10/31/89	Kapulka et al.			
	A75	4,959,774	9/25/90	Davis			
	A76	5,089,958	2/18/92	Horton et al.			
	A77	5,212,784	5/18/93	Sparks			
	A78	5,241,670	8/31/93	Eastridge et al.			
	A79	5,255,270	10/19/93	Yanai et al.			
	A80	5,269,022	12/7/93	Shinjo et al.			
	A81	5,297,258	3/22/94	Hale et al.			
	A82	5,331,646	7/19/94	Krueger et al.			
	A83	5,339,406	8/16/94	Carney et al.			
✓	A84	5,357,509	10/18/94	Ohizumi			

EXAMINER <i>Paul J.</i>	DATE CONSIDERED <i>7/12/2006</i>
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U.S. PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
YLC	A85	5,404,361	4/4/95	Casoro et al.			
	A86	5,404,508	4/4/95	Konrad et al.			
	A87	5,450,546	9/12/95	Krakirian			
	A88	5,469,573	11/21/95	McGill, III et al.			
	A89	5,483,468	1/9/96	Chen et al.			
	A90	5,487,160	1/23/96	Bemis			
	A91	5,524,205	6/4/96	Lomet et al.			
	A92	5,530,846	6/25/96	Strong			
	A93	5,535,188	7/9/96	Dang et al.			
	A94	5,557,770	9/17/96	Bhide et al.			
	A95	5,572,659	11/5/96	Iwasa et al.			
	A96	5,592,648	1/7/97	Schultz et al.			
	A97	5,598,528	1/28/97	Larson et al.			
	A98	5,604,853	2/18/97	Nagashima			
	A99	5,604,862	2/18/97	Midgely et al.			
	A100	5,623,598	4/22/97	Voigt et al.			
	A101	5,634,096	5/27/97	Baylor et al.			
	A102	5,638,509	6/10/97	Dunphy et al.			
	A103	5,640,561	6/17/97	Satoh et al.			
	A104	5,649,152	7/15/97	Ohran et al.			
	A105	5,659,747	8/19/97	Nakajima			
	A106	5,677,952	10/14/97	Blakley, III et al.			
	A107	5,715,438	2/3/98	Silha			
	A108	5,717,849	2/10/98	Brady			

EXAMINER <i>Yand / h</i>	DATE CONSIDERED 7/12/2006
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EXAM. INIT.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE	
✓	A109	5,724,501	3/3/98	Dewey et al.			
✓	A110	5,729,719	3/17/98	Gates			
	A111	5,740,397	4/14/98	Levy			
	A112	5,740,433	4/14/98	Carr et al.			
	A113	5,742,792	4/21/98	Yanai et al.			
	A114	5,751,936	5/12/98	Larson et al.			
	A115	5,758,057	5/26/98	Baba et al.			
	A116	5,761,680	6/2/98	Cohen et al.			
	A117	5,777,874	7/7/98	Flood et al.			
	A118	5,778,392	7/7/98	Stockman et al.			
	A119	5,799,141	8/25/98	Galipeau et al.			
	A120	5,802,264	9/1/98	Chen et al.			
	A121	5,809,340	9/15/98	Bertone et al.			
	A122	5,829,045	10/27/98	Motoyama			
	A123	5,829,046	10/27/98	Tzelnic et al.			
	A124	5,835,915	11/10/98	Carr et al.			
	A125	5,835,953	11/10/98	Ohran			
	A126	5,857,208	1/5/99	Ofek			
	A127	5,893,140	4/6/99	Vahalia et al.			
	A128	5,907,685	5/25/99	Douceur			
	A129	5,933,368	8/3/99	Ma et al.			
	A130	5,961,613	10/5/99	DeNicola			
	A131	5,982,886	11/9/99	Itami et al.			
✓	A132	5,996,088	11/30/99	Frank et al.			

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SUPPLEMENTAL INFORMATION DISCLOSURE
STATEMENT

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EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
✓	A133	6,000,020	12/7/99	Chin et al.			
	A134	6,012,145	1/4/00	Mathers et al.			
	A135	6,014,690	1/11/00	Van Doren et al.			
	A136	6,018,746	1/25/00	Hill et al.			
	A137	6,035,306	3/7/00	Lowenthal et al.			
	A138	6,041,420	3/21/00	Skarpelos et al.			
	A139	6,044,444	3/28/00	Ofek			
	A140	6,054,987	4/25/00	Richardson			
	A141	6,061,770	5/9/00	Franklin			
	A142	6,064,247	5/16/00	Krakirian			
	A143	6,078,990	6/20/00	Frazier			
	A144	6,079,000	6/20/00	Cooper et al.			
	A145	6,081,877	6/27/00	Taki			
	A146	6,085,200	7/4/00	Hill et al.			
	A147	6,122,664	9/19/00	Boukoba et al.			
	A148	6,125,404	9/26/00	Vaglica et al.			
	A149	6,131,148	10/10/00	West et al.			
	A150	6,138,243	10/24/00	Mealey et al.			
	A151	6,173,377 B1	1/9/01	Yanai et al.			
	A152	6,205,527 B1	3/20/01	Goshey et al.			
	A153	6,230,282 B1	5/8/01	Zhang			
	A154	6,243,105 B1	6/5/01	Hoyer et al.			
	A155	6,347,365 B1	2/12/02	Leshem et al.			
✓	A156	6,357,015 B1	3/12/02	Yamakawa et al.			

EXAMINER

Paul J. J.

DATE CONSIDERED

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FORM PTO - 1449 SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTORNEY DOCKET NO.: RVI-003 APPLICANTS: Rowan et al. SERIAL NO.: 10/780,004 FILING DATE: February 17, 2004 GROUP: 2171
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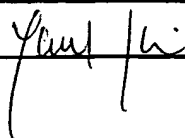
U.S. PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
4/12	A157	6,363,487 B1	3/26/02	Schneider			
11	A158	6,366,987 B1	4/2/02	Tzelnic et al.			
	A159	6,369,820 B1	4/9/02	Bertram et al.			
	A160	6,374,363 B1	4/16/02	Wu et al.			
	A161	6,381,635 B1	4/30/02	Hoyer et al.			
	A162	6,385,707 B1	5/7/02	Maffezoni			
	A163	6,430,577 B1	8/6/02	Hart			
	A164	6,434,681 B1	8/13/02	Armangau			
	A165	6,434,710 B1	8/13/02	Sato et al.			
	A166	6,446,090 B1	9/3/02	Hart			
	A167	6,477,629 B1	11/5/02	Goshey et al.			
	A168	6,499,034 B1	12/24/02	Mackinlay			
	A169	6,505,248 B1	1/7/03	Casper et al.			
	A170	6,532,535 B1	3/11/03	Maffezoni et al.			
	A171	6,535,967 B1	3/18/03	Milillo et al.			
	A172	6,542,975 B1	4/1/03	Evers et al.			
	A173	6,549,992 B1	4/15/03	Armangau et al.			
	A174	6,553,392 B1	4/22/03	Mosher, Jr. et al.			
	A175	6,557,089 B1	4/29/03	Reed et al.			
	A176	6,560,614 B1	5/6/03	Barboy et al.			
	A177	6,581,185 B1	6/17/03	Hughes			
	A178	6,594,744 B1	7/15/03	Humlicek et al.			
	A179	6,618,794 B1	9/9/03	Sicola et al.			
↓	A180	6,622,263 B1	9/16/03	Stiffler et al.			

EXAMINER <i>Paul J. [signature]</i>	DATE CONSIDERED <i>7/12/2006</i>
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U.S. PATENT DOCUMENTS							
EXAM. INIT.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE	
✓	A181	6,643,671 B2	11/4/03	Milillo et al.			
	A182	6,651,075 B1	11/18/03	Kusters et al.			
	A183	6,664,964 B1	12/16/03	Levin-Michael et al.			
	A184	6,665,779 B1	12/16/03	Polfer et al.			
	A185	6,667,743 B2	12/23/03	Bertram et al.			
	A186	6,684,229 B1	1/27/04	Luong et al.			
	A187	6,687,322 B1	2/3/04	Zhang et al.			
	A188	6,691,245 B1	2/10/04	DeKoning			
	A189	6,694,413 B1	2/17/04	Mimatsu et al.			
	A190	6,701,456 B1	3/2/04	Biessener			
	A191	6,704,730 B2	3/9/04	Moulton et al.			
	A192	6,711,572 B2	3/23/04	Zakharov et al.			
	A193	6,711,693 B1	3/23/04	Golden et al.			
	A194	6,732,125 B1	5/4/04	Autrey et al.			
	A195	6,732,171 B2	5/4/04	Hayden			
	A196	6,732,293 B1	5/4/04	Schneider			
	A197	2001/0013100 A1	8/9/01	Doblar et al.			
	A198	2001/0056438 A1	12/27/01	Ito			
	A199	2002/0010872 A1	1/24/02	Van Doren et al.			
	A200	2002/0103982 A1	8/1/02	Ballard et al.			
	A201	2002/0133512 A1	9/19/02	Milillo et al.			
	A202	2002/0144044 A1	10/3/02	Moon et al.			
	A203	2002/0199073 A1	12/26/02	Tamura et al.			
✓	A204	2003/0006988 A1	1/9/03	Alford, Jr. et al.			

EXAMINER



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EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
y/k	A205	2003/0014605 A1	1/16/03	Slater et al.			
1	A206	2003/0018657 A1	1/23/03	Monday			
	A207	2003/0028726 A1	2/6/03	Gaertner et al.			
	A208	2003/0051109 A1	3/13/03	Cochran			
	A209	2003/0056136 A1	3/20/03	Aweya et al.			
	A210	2003/0061331 A1	3/27/03	Nakamura et al.			
	A211	2003/0061456 A1	3/27/03	Ofek et al.			
	A212	2003/0088807 A1	5/8/03	Mathiske et al.			
	A213	2003/0126387 A1	7/3/03	Watanabe			
	A214	2003/0140070 A1	7/24/03	Kaczmariski et al.			
	A215	2003/0140209 A1	7/24/03	Testardi			
	A216	2003/0167380 A1	9/4/03	Green et al.			
	A217	2003/0177321 A1	9/18/03	Watanabe			
	A218	2003/0191829 A1	10/9/03	Masters et al.			
	A219	2003/0204700 A1	10/30/03	Biessener et al.			
	A220	2003/0225884 A1	12/4/03	Hayden			
	A221	2004/0030951 A1	2/12/04	Armangau			
	A222	2004/0117572 A1	6/17/04	Welsh et al.			
✓	A223	2004/0139128 A1	7/15/04	Becker et al.			

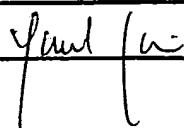
EXAMINER <i>Paul / L</i>	DATE CONSIDERED <i>7/12/2006</i>
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FORM PTO - 1449					ATTORNEY DOCKET NO.: RVI-003				
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EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG (Y/N)
YC	B1	WO 91/01026	1/24/91	WO			6/28/90	N	Y
I	B2	WO 96/12232	4/25/96	WO			10/10/95	N	Y
	B3	WO 99/12101	3/11/99	WO			9/4/98	N	Y
	B4	WO 00/65447	11/2/00	WO			4/24/00	N	Y
	B5	WO 01/04801 A1	1/18/01	WO			7/10/00	N	Y
	B6	WO 01/33357 A1	5/10/01	WO			10/26/00	N	Y
	B7	WO 03/007148 A1	1/23/03	WO			7/15/02	N	Y
	B8	EP 1 091 229 A2	4/11/01	EP			10/6/00	N	Y
✓	B9	EP 0 751 462 B1	7/31/02	EP			4/26/96	N	Y
EXAMINER <i>Paul J. W.</i>					DATE CONSIDERED <i>7/12/2006</i>				

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		GROUP: 2171	
OTHER ART, JOURNAL ARTICLES, ETC.			
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)		
ye	C1	Castelletto et al., "DB2 for VSE & VM Archiving and Recovery," IBM VSE/ESA, pp. 1, 3-9, 11-18 (1996).	
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	C3	"Commands for Optical Memory Block Devices." in T10, <i>Information Technology - SCSI-3 Block Commands</i> (Nov. 13, 1997) (pp. 72-73).	
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	C6	Hultgren, C.D., "Fault-tolerant Personal Computers Safeguard Critical Applications," <i>I&CS Instruments and Control Systems</i> , vol. 65, No. 9, Radnor, PA, US, pp. 23-28 (Sep. 1992).	
	C7	International Search Report of PCT/US98/18863; completed Feb. 2, 1999.	
	C8	International Search Report of PCT/US00/10999; completed Aug. 25, 2000.	
	C9	<i>Proven Technology and Industry Leadership</i> [online], (2004) [retrieved on 8/23/2004]. Retrieved from the Internet:< URL: http://www.mendocinosoft.com/pages.company.html >.	
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	C11	Robinson, J.T., Analysis of Steady-State Segment Storage Utilizations in a Log-Structured File System with Least-Utilized Segment Cleaning, IBM Research Division, T.J. Watson Research Center, Oct., 1996, pp. 29-32.	
	C12	Rodriguez-Rivera et al., "A Non-Fragmenting Non-Moving, Garbage Collector," from Proceedings of the International Symposium on Memory Management, Vancouver, Canada, Oct. 17-19, 1998, pp. 79-85, especially Figure 3 and pp. 82-83.	
	C13	Shread, P. <i>The Big Blackout, a Year Later</i> , [online], (Aug. 13, 2004) [retrieved on 8/23/2004]. Retrieved from the Internet:< URL: http://www.internetnews.com/storage/article.php/3394821 >.	
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EXAMINER	DATE CONSIDERED		

FORM PTO - 1449		ATTORNEY DOCKET NO.: RV1-003
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		APPLICANTS: Rowan et al.
		SERIAL NO.: 10/780,004
		FILING DATE: February 17, 2004
		GROUP: 2171
OTHER ART, JOURNAL ARTICLES, ETC.		
✓	C17	Topio, Inc., <i>Business Solutions: Replicated Storage Services</i> [pdf online], (Nov. 2003) [retrieved on 8/23/04]. Retrieved from the Internet:< URL: http://www.topio.com/product/pdf/RSS.pdf >.
	C18	Topio, Inc., <i>Enterprise Data Recoverability</i> [pdf online], (Nov. 2003) [retrieved on 8/23/2004]. Retrieved from the Internet:< URL: http://www.topio.com/product/pdf/EDR.pdf >.
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	C29	XOSoft, Inc., <i>Company Overview</i> [online], (Jul. 23, 2003) [retrieved on 8/23/04]. Retrieved from the Internet:< URL: http://www.xosoft.com/company/index.shtml >.
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EXAMINER



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7/12/2006

FORM PTO - 1449		ATTORNEY DOCKET NO.: RV1-003	
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		APPLICANTS: Rowan et al.	
		SERIAL NO.: 10/780,004	
		FILING DATE: February 17, 2004	
		GROUP: 2171	
<i>YK</i>	C32	XOsoft, Inc., WANSync ^{HA} Product Suite [online], (Dec. 2003) [retrieved on 8/23/04]. Retrieved from the Internet:< URL: http://www.xosoft.com/products/f_WANSyncHA.shtml >.	
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Application Number	10/780,004
Filing Date	February 17, 2004
First Named Inventor	Michael T. ROWAN, et al.
Group Art Unit	2171
Examiner Name	Unassigned
Attorney Docket Number	66281.000005

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